



## EXETER PUBLIC WORKS DEPARTMENT

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July 1, 2015

United States Environmental Protection Agency  
Region I – New England  
5 Post Office Square – Suite 100  
Boston, MA 02109-3912  
Attn: Joy Hilton, Water Technical Unit (Mail Code: OES04-3)

Re: **NPDES Permit No. NH0100871**  
**Administrative Order on Consent Docket No. 13-010**  
**Quarterly Progress Report, 2nd Quarter, 2015, Eighth Report**

Dear Ms. Joy Hilton:

This report is being made in accordance with the Administrative Order on Consent, Section IV.C., for the second quarter period of April 1, 2015 to June 30, 2015.

Per Section IV.C.1.a., activities undertaken during this reporting period directed with achieving compliance with this Order include:

- On April 7<sup>th</sup> a contract was signed with Wright-Pierce Engineering for (titled) *Engineering Design Phase Contract for Professional Services for Treatment Works* at \$3,211,300.
- On April 7<sup>th</sup> the final draft of the *Wastewater Facilities Plan* by Wright-Pierce was mailed to NHDES and EPA.
- On April 15<sup>th</sup> a “Full Design” kick-off meeting was held with Wright-Pierce Engineering.
- On April 20<sup>th</sup> Town Water & Sewer staff met with Haley & Aldrich Geo-Technical Engineers (subcontractor for Wright-Pierce Engineers) for boring site utilities locating and Digsafes.
- On April 22<sup>nd</sup> a nitrogen tracking meeting was held.
- On May 13<sup>th</sup> Town water & wastewater staff toured the Durham, NH Bardenpho and Pease Development Authority sequential batch reactor activated sludge plants with Wright-Pierce Engineering.
- On May 22<sup>nd</sup> a “Presentation of Findings” by Wright-Pierce meeting was held with the Department of Public Works (DPW), two Water & Sewer Advisory

Committee members, one Selectman and one Conservation Committee member in attendance. A copy of that Power Point presentation is attached to the email that this quarterly report is attached to.

- On May 29<sup>th</sup> a follow up meeting to discuss “Presentation of Findings” was held with Wright-Pierce, Department of Public Works (DPW), DES-WWEB (Gloria Andrews, PE) two Water & Sewer Advisory Committee members, one Selectman and one Conservation Committee member in attendance. Treatment options and construction phasing discussed in detail with a ranking of options and projected costs.
- On June 10<sup>th</sup> a meeting was held with Wright-Pierce and water & sewer operational staff to review/discuss wastewater design options for generators, sludge dewatering, etc.
- On June 17<sup>th</sup> a presentation was made to the Board of Selectmen and Water & Sewer Advisory Committee at a public meeting by Wright-Pierce. An updated version of the “presentation of Findings” Power Point (used previously on May 22<sup>nd</sup>) followed by a question and answer session.
- The Town continues to participate in WISE (Water Integration Squamscott (River) Exeter), principal members are Rob Roseen and Renee Bourdeau, both of Geosyntec.
- Weekly 24-hour composite total nitrogen influent sampling resumed on June 15<sup>th</sup>.

- Wright-Pierce Engineering activities completed for the Town’s Wastewater Facilities Plan/Full Design in the past quarter:
- All dates are 2015, unless otherwise noted.
- Coordinated contract approval with NHDES. Initiated project. Executed subcontracts with Doucet Survey, TMD Utility Marking, Gove Environmental.
- Decision making meeting with DPW (Apr 15)
- Initiated Biowin modeling for concept design task.
- Coordinated with Town staff.

Budget Status:

- See below.

Wastewater Facilities Plan		Original		Current	Total	
Task	Description	Budget	Added	Budget	Expended	Status
1000	Survey	\$60,000	\$0	\$60,000	\$907	On-going
2000	Geotech	\$85,000	\$0	\$85,000	\$1,200	On-going
3000	Preliminary Design	\$435,200	\$0	\$435,200	\$26,087	On-going
4000	Final Design	\$2,432,500	\$0	\$2,432,500	\$0	Hold
5000	Invasive Species Mgmt Plan	\$43,500	\$0	\$43,500	\$759	On-going
6000	Grants	\$24,800	\$0	\$24,800	\$0	Hold

7000	Value Engineering	\$45,200	\$0	\$45,200	\$0	Hold
8000	Bidding	\$90,100	\$0	\$90,100	\$0	Hold
		<b>\$3,211,300</b>	<b>\$0</b>	<b>\$3,211,300</b>	<b>\$28,953</b>	<b>1%</b>

**Notes:**

- 1) Tasks 1000/2000/3000 were from the original contract (Dec 2013).
  - 2) Task 3000 was stopped by agreement with the Town and EPA/NHDES (Apr 2014).
  - 3) Task 4000/5000 were requested by the Town by draft Amendment #1 (Dec 2014). These tasks were authorized by the Town, but the Amendment was not executed.
  - 4) Task 6000 was requested by the Town. The budget allowance is based on an email from the Town to Wright-Pierce (Mar 2015) identifying 10 scope items.
- - On-going coordination with WWTF influent sampling program.
  - Coordinated with Town staff.
  - All dates are 2015, unless otherwise noted.
  - Initiated work with multiple subconsultants. Topographic survey (Doucet Survey) and utility marking (TMD Utility Marking) tasks were started. Subcontracts were executed for geotechnical engineering (Haley & Aldrich), hazardous materials survey (Northeast Test Consultants) and invasive species management (Gove Environmental) were prepared and executed.
  - Continued Biowin modeling for the concept design task for the biological nutrient removal activated sludge process. Prepared concept design tank sizes, site layouts and capital/O&M/present worth cost estimates.
  - Coordinated and attended site tours with the DPW staff to the Durham NH WWTF (Bardenpho process) and the Pease Portsmouth WWTF (sequencing batch reactor process).
  - Prepared for and presented the results and recommendations of the concept design task results to Town and DES (May 22).
  - Prepared for and attended a follow-up meeting to discuss the concept design task and recommendations. Also discussed additional preliminary design items related to the Main Pump Station and biosolids dewatering (May 29).
  - Coordinated with Town staff.

**Budget Status:**

<b>WWTF &amp; Main PS Upgrade Design</b>		<b>Original</b>		<b>Current</b>	<b>Total</b>	
<b>Task</b>	<b>Description</b>	<b>Budget</b>	<b>Added</b>	<b>Budget</b>	<b>Expended</b>	<b>Status</b>
1000	Survey	\$60,000	\$0	\$60,000	\$17,930	On-going
2000	Geotech	\$85,000	\$0	\$85,000	\$2,466	On-going
3000	Preliminary Design	\$435,200	\$0	\$435,200	\$67,734	On-going
4000	Final Design	\$2,432,500	\$0	\$2,432,500	\$0	Hold
5000	Invasive Species Mgmt Plan	\$43,500	\$0	\$43,500	\$1,069	On-going
6000	Grants	\$24,800	\$0	\$24,800	\$0	Hold
7000	Value Engineering	\$45,200	\$0	\$45,200	\$0	Hold
8000	Bidding	\$90,100	\$0	\$90,100	\$0	Hold
		<b>\$3,211,300</b>	<b>\$0</b>	<b>\$3,211,300</b>	<b>\$89,199</b>	<b>3%</b>

Per Section IV.C.1.b., no plans, reports or other deliverables required by this order were completed or are submitted during this reporting period, with the exception of DMRs.

Per Section IV.C.1.c., expected activities to be taken during the next quarter to achieve compliance with the Order include:

- Design of treatment facilities will continue as well as meetings with Town operational staff to determine design schemes and processes.
- In July another Wright-Pierce presentation will be made at a public meeting with both the Board of Selectmen and Water & Sewer Advisory Committee.
- The Town continues to report (on the DMR), monthly average, daily max loadings and daily max concentrations for total nitrogen.

Please call if you have any questions or need any additional information.

Sincerely,



Michael Jeffers  
Water & Sewer Managing Engineer  
Town of Exeter, New Hampshire

cc. Tracy Wood, P.E., NHDES Wastewater Engineering Bureau  
Russell Dean, Town Manager  
Jennifer Perry, DPW Director  
Paul Vlasich, P.E., Town Engineer  
Michael Jeffers, Water & Sewer Managing Engineer  
Scott Butler, Senior Operator



Michael Jeffers &lt;mjeffers@exeternh.gov&gt;

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**Town of Exeter; AOC Docket # 13-010;Second Quarter Progress Report**

1 message

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**Michael Jeffers** <mjeffers@exeternh.gov>

Tue, Jun 30, 2015 at 3:10 PM

To: Joy Hilton &lt;hilton.joy@epa.gov&gt;, "Wood, Tracy L" &lt;tracy.wood@des.nh.gov&gt;

Cc: Jennifer Perry &lt;jperry@exeternh.gov&gt;, Russ Dean &lt;rdean@exeternh.gov&gt;, Paul Vlasich &lt;pvlasich@exeternh.gov&gt;, Scott Butler &lt;sbutler@exeternh.gov&gt;, Steve Dalton &lt;sdalton@exeternh.gov&gt;

Hello Joy &amp; Tracy:

Please find the Town of Exeter AOC second quarter progress report and a power point presentation attached.

Regards,

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Michael Jeffers  
Water & Sewer Managing Engineer  
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**2 attachments** **AOC Qtr2, 2015 Pro Rep, Rep#8.pdf**  
3864K **Exeter-Process Alternatives presentation, 22 May 2015.pdf**  
919K